FORM PTO-1449 (REV.7-80)

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE ATTY. DOCKET NO. 690022.527C2

January 24, 2002

APPLICANTS

FILING DATE

EXPRESS MAIL NO. EV064839733US

Scott S. Graves et al.

GROUP ART UNIT

Not yet assigned

INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE				
DB	AA	4,237,224	12/02/80	Cohen and Boyer	435	-68-					
DB	AB	4,399,216	08/16/83	Axel et al.	435	-6-					
DB	AC	4,468,464	08/28/84	Cohen and Boyer	435-	317					
DB	AD	4,634,665	01/06/87	Axel et al.	435	68-					
ÞB	AE	4,656,134	04/07/87	Ringold	435	91					
DB	AF	4,740,470	04/26/88	Cohen and Boyer	435	1 72.3					
DB	AG	4,816,397	03/28/89	Boss et al.	435	68 -					
DB	АН	4,816,567	03/28/89	Cabilly et al.	520	387					
DB	AI	4,870,023	09/26/89	Fraser et al.	435-	-320					
DB	AJ	4,879,236	11/07/89	Smith and Summers	435-	235					

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANS	LATION
		DOCUMENT NOMBER	DATE	COUNTRI	YES	NO
DB	AK	CA 1 316 852 C	04/27/93	Canada		
-	AL	EP 045 809 B1	02/17/82	EPO		
	AM	EP 120 694 B1	10/03/84	EPO		
	AN	EP 125 023 B1	11/14/84	EPO		
	AO	EP 173 552 A1	03/05/86	EPO		
JB	AP	EP 239 400 B1	09/30/87	ЕРО		

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

DB	AQ	Abraham et al., "The influence of periodate oxidation on monoclonal antibody avidity and immunoreactivity," <i>J. Immunol. Methods</i> 144(1):77-86, October 15, 1991.
DB	AR	Better et al., "Escherichia coii secretion of an active chimeric antibody fragment," <i>Science</i> 240(4855):1041-1043, May 20, 1988.
DB	AS	Brekke et al., "The structural requirements for complement activation by IgG: does it hinge on the hinge." <i>Immunol Today</i> 16(2): 85-90, 1995.

EXAMINER

DATE CONSIDERED

* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).

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D	<u>B</u>	BA	4,946,778	08/07/90	Ladner et	al.	-435	-	69.6		
		BB	4,975,369	12/04/90	Beavers et	t al.	435		69.1		
		вс	5,015,580	05/14/91	Christou e	et al.	435	5- 1 72.3-			
		BD	5,041,379	08/20/91	Fraser et al.		435		235 .1		
		BE	5,071,748	12/10/91	Miller		435		69.1		
		BF	5,077,214	12/31/91	Guarino a	nd Jarvis	435	-	240.2	. <u> </u>	
		BG	5,084,396	01/28/92	Morgan, J	r. et al.	436	_	513		
		вн	5,091,513	02/25/92	Huston an	d Oppermann	330	-	387		
7	/ .	ві	5,110,729	05/05/92	Maeda et a	al.	435	•	69.1-		
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I	B	BK	EP 260 148 A2	03/16/88	EPO			,			
		BL	EP 319 206 A2	06/07/89	EPO						
		ВМ	EP 328 404 B1	08/16/89	EPO						
		BN	EP 338 841 A1	10/25/89	EPO		•				
V	<u>'</u>	во	EP 393 045 B1	10/24/90	EPO						
Į	B	BP	EP 411 893 A2	02/06/91	EPO						
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يا_	Using A Matched Set Of Chimeric Antibodies," <i>J. Exp. Med.</i> 166: 1351-1361, 1987. Canfield and Morrison, "The Binding Affinity of Human IgG for its High Affinity Fc										
1	1 2	BR	Receptor Is D	etermined b	y Multiple	Amino Acids in the C	~		_	•	d by
EV A	MINIE	D	the Hinge Reg	gion," J. Exp		1: 1483-1491, 1991.	,	<u>.</u>			
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1		СВ	5,132,405	07/21/92		d Oppermann	530	-	387.3		
		СС	5,147,788	09/15/92	Page and	Rodgers	435		69.1		
		CD	5,149,655	09/22/92	McCabe a	nd Martinell	435	287			
		CE	5,155,037	10/13/92	Summers		435	_	240.2		
		CF	5,162,222	11/10/92	Guarino a	nd Jarvis	435		2 40.2		
		CG	5,169,784	12/08/92	Summers	and Oker-Blom	435		920.1		
		СН	5,169,939	12/08/92	Gefter et al.		530	_	387.3		
\downarrow	,	CI	5,179,007	01/12/93	Jarvis and	Carrington	435	-	68.1		
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1		CK	EP 451 216 B1	10/16/91	ЕРО					٠	
		CL	EP 460 167 B1	12/11/91	EPO	,					
		СМ	EP 520 962 A2	12/30/92	ЕРО						
		ĊN	EP 578 515 A2	01/12/94	EPO						
V		со	EP 592 106 A1	04/13/94	ЕРО						
DE	3	СР	EP 614 982 A1	09/14/94	EPO						
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DB			affinity of an October 1993		nonoclonal	antibody," Molecular	· Immu	ınolog	<i>zy 30</i> (15):	1361-	1367,
	,	CR			cDNAs enc	coding the variable do	mains	of ant	ibody KC	4G3 a	nd
DR			construction	of a chimeric	antibody,	" <i>Hybridoma 12</i> (4):48		, Augi	ust 1993.		
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FORM PTO-1449 (REV.7-80)	49 U.S. DEPARTMENT OF COMMERCE ATTY, DOCKET NO. EXPRESS MAIL NO. EVO64839733US								
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DB	DA	5,185,254	02/09/93	Linnenbac	ch	435	- 1 72.3		
1	DB	5,225,539	07/06/93	Winter		-530-	- 387.3		·
	DC	5,260,203	11/09/93	Ladner et	al.	435	172.3		
	DD	5,266,314	11/30/93	Maeda		724 93 A			
	DE	5,304,489	04/19/94	Rosen		435	320.1		
	DF	5,322,774	06/21/94	Peakman	et al.	435 69.1			
	DG	5,348,886	09/20/94	Lee et al.		435	3201		
	DH	5,348,887	09/20/94	Bumol et	al.	435	- 320.1		
V DI 5,349,053 09/20/94 Landolfi 530 351									
DB	DJ	5,385,839	01/31/95	Stinski		435	- 2 40.2		
			FOREI	GN PATEN	T DOCUMENTS				
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1	DK	EP 682 040 A1	11/15/95	EPO					
	DL	EP 699 755 A2	03/06/96	ЕРО					
	DM	GB 2 188 638 A	10/07/87	Great B	ritain				
	DN	WO 84/03712	09/27/84	WIPO					
V	DO	WO 86/01533	03/13/86	WIPO					
JB.	DP	WO 86/02097	04/10/86	WIPO					
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ATTY, DOCKET NO. FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE EXPRESS MAIL NO. (REV.7-80) PATENT AND TRADEMARK OFFICE 690022.527C2 EV064839733US APPLICANTS INFORMATION DISCLOSURE STATEMENT Scott S. Graves et al. (Use several sheets if necessary) FILING DATE GROUP ART UNIT January 24, 2002 Not yet assigned U.S. PATENT DOCUMENTS *EXAMINER FILING DATE DOCUMENT NUMBER DATE SUBCLASS NAME CLASS IF APPROPRIATE INITIAL McCabe and Burkholder 5,405,779 04/11/95 435 287 EA 05/09/95 Kucherlapati et al. 435 172.3 5,413,923 EB 5,422,281 06/06/95 Harris and Oh 436- 501-EC Krimpenfort et al. ED 5,434,340 07/18/95 800 08/22/95 424 149 5,443,953 Hansen et al. 5,464,764 11/07/95 Capecci and Thomas 435 172.3 252.33 5,476,786 12/19/95 Huston 435 EG 5,487,992 01/30/96 Capecchi et al. 435 172.3 EΗ 5,503,998 04/02/96 172.3 Christou et al. 435 ΕI 04/09/96 435 172.1 5,506,125 McCabe and Heinzen FOREIGN PATENT DOCUMENTS TRANSLATION DATE DOCUMENT NUMBER COUNTRY NO EK WO 86/05807 10/09/86 WIPO EL WO 87/04462 07/30/87 **WIPO** EM WO 88/01649 03/10/88 **WIPO** EN WO 88/06630 09/07/88 **WIPO** ΕO WO 89/01036 02/09/89 **WIPO** DBΕP WO 89/09825 **WIPO** 10/19/89 OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.) Dwek et al., "Glycobiology: 'the function of sugar in the IgG molecule'," J. Anatomy EQ 187:279-292, October 1995. Endo et al., "Glycosylation of the variable region of immunoglobulin G—site specific ER maturation of the sugar chains," Molecular Immunology 32(13):931-940, September 1995. **DATE CONSIDERED** EXAMINER Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in * EXAMINER: conformance and not considered. Include copy of this form with next communication to applicant(s).

Sheet <u>6</u> of <u>12</u> U.S. DEPARTMENT OF COMMERCE FORM PTO-1449 ATTY, DOCKET NO. EXPRESS MAIL NO. (REV.7-80) PATENT AND TRADEMARK OFFICE 690022.527C2 EV064839733US APPLICANTS INFORMATION DISCLOSURE STATEMENT Scott S. Graves et al. (Use several sheets if necessary) FILING DATE GROUP ART UNIT January 24, 2002 Not yet assigned U.S. PATENT DOCUMENTS *EXAMINER FILING DATE DOCUMENT NUMBER DATE CLASS SUBCLASS NAME IF APPROPRIATE INITIAL 5,525,510 06/11/96 435 McCabe and Swaine 285.3 DRFA 5,530,101 06/25/96 Oueen and Selick 530 387.3 FB 424 FC 5,545,403 08/13/96 Page 133.1 5,545,404 08/13/96 Page 424- FD 133.1 5.545.405 08/13/96 424-133.1 Page FΕ 5,545,806 08/13/96 Lonberg and Kay 800-5,569,825 10/29/96 Lonberg and Kay 800 FG 424_ FH 5,578,287 11/26/96 Theodore et al. 1.49 - 71_ 5,584,807 12/17/96 McCabe 604-FΙ \mathcal{K} 5,585,089 12/17/96 Queen and Selick 424 133.1 FJ FOREIGN PATENT DOCUMENTS TRANSLATION DATE DOCUMENT NUMBER COUNTRY YES FΚ WO 89/10404 11/02/89 WIPO FL WO 90/04036 04/19/90 WIPO' FM 09/20/90 WO 90/10457 WIPO FN WO 91/06320 03/16/91 **WIPO** FO WO 91/06657 05/16/91 **WIPO** FP WO 91/09967 07/11/91 **WIPO** FQ WO 92/04381 03/19/92 **WIPO** J PR OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.) Geysen et al., "Use of Peptide Synthesis to Probe Viral Antigens for Epitopes to a FR Resolution of a Single Amino Acid," P.N.A.S. USA 81(13):3998-4002, July 1984. Goshorn et al., "Preclinical Development of huNR-LU-10, a Humanized Antibody for Tumor Targeting," Immunothechnology 2(4):300, 1996

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$\mathcal{D}_{\mathcal{B}}$	GA	5,585,097	12/17/96	Bolt et al.		-424	_	133.1		
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DR	GC	WO 92/11018	07/09/92	WIPO			• •	,		
1	GD	WO 92/15683	09/17/92	WIPO	· · · · · · · · · · · · · · · · · · ·					
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-3)	CIV	August 14, 19 Greenspan et			: It's not as easy as it so	eems.'	' Nat	ure Biotec	hnolos	יע
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DB	GL	· ·	combinant a	•	l properties of a recomed variant," Cancer Im					1
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10	GN	Herlyn et al.,	"CO 17-1A	and Relate	d Monoclonal Antibod					
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DB						8: 60-63, 1994.				1 11 -	
~ 0	Leung et al., "Construction and characterization of a humanized, internalizing, B-cell (CD22)-specific, leukemia/lymphoma antibody, LL2," <i>Molecular Immunology 32</i> (17-										
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	IL	Lund et al., "C	Control of Ig	G/Fc Glyc	osylation: A Comparis	on Of	Olig	gosaccaride			
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TR	Muraoka et al., "Structural requirements for IgM assembly and cytolytic activity," J.										
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